



4th Open Science Meeting of the Global Land Programme

April 24-26, 2019 | Bern, Switzerland

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Conference Time: 30/Jan/2020 10:33am CET

Conference Agenda

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[Authors](#)



Session Overview

Session

359N: Are there archetypes of land system transformations towards sustainable development?

Time: Thursday, 25/Apr/2019: 5:15pm - 6:45pm

Location: MB-114

Session Chair: Diana Sietz

Main Building, 1st floor, west wing, 78 seats

Session Chair: Tomas Vaclavik

Session Chair: Christoph Oberlack

Session Topics: How do we support transformation?

Session Abstract

Transformations of land systems towards more sustainable development proceed in highly context-specific ways. This complicates efforts at cumulating and transferring knowledge about successes, trade-offs and failures of land system transformations across contexts. The archetypes approach is increasingly used as a methodological approach to understand recurrent patterns of factors and processes that shape the sustainability of land systems. Archetypes of land system transformations can be understood as recurrent but non-universal building blocks that explain how and under what conditions land systems transform towards more sustainable development.

The GLP Working Group on Archetype Analysis organizes this World Café to stimulate lively debate about the overarching question: are there archetypes of land system transformations towards sustainable development?

This session takes the format of a World Café. In the first step, four resource persons will provide brief, provocative statements and examples on the panel's question (3-4 minutes each). In the second step, all session participants gather at moderated World Café tables for in-depth discussion in smaller groups in multiple rounds (ca. 50 minutes). In the final step, discussion in the plenary synthesizes the positions formed on the panel's question (ca. 30 minutes).

The guiding questions at the tables are:

Table 1: Are there archetypes of land system transformation? Under what conditions will we observe what archetype?

Table 2: Methodological options, challenges and progress using quantitative/qualitative/'big-data' approaches to identify and analyse archetypes of land system transformation

Table 3: Using case insights to extrapolate towards archetypes of land system transformations

Table 4: Using archetype thinking to upscale land-based sustainability solutions, e.g. in knowledge co-production

The final plenary discussion will aim at formulating a set of concise positions on the session's overarching question on archetypes of land system transformations towards sustainable development. We invite researchers, policy-makers and practitioners working on any dimension of land system transformation towards sustainable development. Background in archetype analysis is not necessary to participate, a stronger interest in the opportunities and challenges of transferring insights into land system transformations across contexts is key.

Session Organizers: Diana Sietz, Tomas Vaclavik, Klaus Eisenack, and Christoph Oberlack

Presentations



ID: 660 / 359N: 1

359N Are there archetypes of land system transformations towards sustainable development? (INVITED ABSTRACTS ONLY)

Archetypes of land transformations and trajectories of ecosystem services in mountains

Bruno Locatelli^{1,2}

¹CIRAD, University of Montpellier (France); ²CIFOR (Peru)

Based on a synthesis of 51 cases of temporal changes in land use and ecosystem services within mountain landscapes, we analyze how changes in land-use intensity influence the supply of ten key services and we describe six typical archetypes. Our analysis reveals that land-use intensity is an important factor shaping these archetypes. Land-use intensification often degrades ecosystem services (eg recreation and water regulation), with the exception of services targeted by intensification (food or timber) and with differences between forest and agricultural intensification. Service degradation following intensification is not always reversed by reductions in land-use intensity (extensification).

ID: 840 / 359N: 2

359N Are there archetypes of land system transformations towards sustainable development? (INVITED ABSTRACTS ONLY)

Typical interactions between Sustainable Development Goals and Aichi Biodiversity Targets to inform sustainable land transformations

Diana Sietz¹, Anke Frank², Jens Jetzkowitz³, Monika Wulf⁴, Katrin Vohland³, Livia Schäffler², Kirsten Thonicke¹

¹Potsdam Institute for Climate Impact Research (PIK), Germany; ²ZFMK, Germany; ³MFN, Germany; ⁴ZALF, Germany

Agricultural intensification has been proposed to increase food production and achieve food security. Yet, intensive agriculture may diminish chances to achieve land-based Sustainable Development Goals (e.g. SDG 15) and Aichi Biodiversity Targets (e.g. Targets 5). However, interactions between these development goals may differ strongly between different locations. Archetype analysis based on clustering reveals typical synergies/trade-offs, such as the recurrent combination of relatively intact biodiversity, low infant mortality

and low resource extraction in some regions in South America. Knowledge of typical interactions can support learning and up-scaling of strategies based on similarities across land systems.

ID: 480 / 359N: 3
359N Are there archetypes of land system transformations towards sustainable development? (INVITED ABSTRACTS ONLY)
Using archetype thinking to upscale land-based sustainability solutions

Flurina Schneider
University of Bern, Switzerland

There is broad agreement that solutions to land-based sustainability challenges need to be contextualised to specific conditions and actors. For example, promising sustainable land management practices (SLM) might look quite different in tropical or dry regions. Moreover, different actors often perceive them in quite different ways. Therefore, it is often stressed that SLM practices need to be co-produced with local actors in their context. But how can this contextualised knowledge be made relevant for other places? In my presentation, I will show on the example of WOCAT how archetype thinking can help upscaling and translating contextualised SLM solutions.

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